A02-0024

September 19, 2000

LOCKHEED MARTIN

The Performance Track Information Center
c/o Industrial Economics Incorporated
2067 Massachusetts Avenue
Cambridge, MA 02140

Dear Performance Track Information Center:

Subject: EPA Performance Achievement Track Application

Lockheed Martin Systems Integration - Owego's application to participate in EPA's Performance Track Program at the Achievement level is enclosed. We look forward to working with the EPA in this program. We are committed to continuing improvement in our environmental programs and community outreach programs.

Our facility has had environmental protection programs in excess of 25 years and we have always taken a proactive approach to protecting the environment and reducing the use of hazardous chemicals. We integrated environmental considerations into business decision making many years ago, and protecting the environment is part of every employee's responsibilities. We registered our programs to ISO 14001 in July 1997.

Please direct any questions about our application or environmental programs to me at (607) 751-2285, or to Joyce Lee, of my staff, (607) 751-4579.

Sincerely,

Hal Ehrhardt
Manager, Safety, Chemical and Environmental Programs
HRE: JCBL

cc: Stephen P. Evanoff, Lockheed Martin Corporate Energy, Environment, Safety and Health
Joyce C.B. Lee
Norm Varney, Lockheed Martin System Integration Headquarters

Lockheed Martin Systems Integration - Owego
1801 State Route 17C Owego, NY 13827-3998
Telephone 607-751-2000

A02-0024

LOCKHEED MARTIN

October 30, 2000

Mr. Evans Stamataky Fax 212 637 3771
U.S. Environmental Protection Agency

cc: Ms. Emily Levin Fax 617 354 0463

This memo is to respond to questions that you asked during an October 30, 2000 telephone conversation, relative to the Lockheed Martin Systems Integration - Owego facility's performance track program application..

Types of Self-Assessment - In addition to our ISO 14001 management system and compliance assessments, we do an annual assessment in conformance with a procedure from our corporate environmental, safety and health office.

Aspects - Our manufacturing operations produce printed circuit boards in a variety of sizes for many different customers and uses. We measure throughput in manufacturing by boardfeet, a 12" by 12" board is 1 boardfoot, a 12" by 20" is 1.67. We consider the actual number of boardfeet produced to be company proprietary. We have used a ratio of current annual production to 1990 production for reporting purposes to New York State for our required Hazardous Waste Reduction Plan. We propose to use this same unit for Performance Track.

Aspect #4 - We use a variety of hazardous materials in the production of printed circuit boards and are proposing to reduce the total quantity used on the copper plating lines, rather than concentrating on individual chemical use. Hazardous materials we hope to reduce include solid copper and a variety of purchased electroplating solutions such as Unichrome compound 4A, Fidelity Liquid copper, Unichrome C11-XB, Copper Gleam 125 EX additive.

Community Concerns - Lockheed Martin's point of contact with the Owego community is the Director of Communications and Community Relations. This position is currently held by Mike Drake, 607 751-4524.

Please contact me if you have any additional questions, 607 751-2285, or Joyce Lee of my staff, 607 751-4579.

for H. Ehrhardt

Hal Ehrhardt
Manager, Safety, Chemical and Environmental Programs
Hal.ehrhardt@lmco.com
Fax: 607 751 4730

National Environmental Achievement Track

Application Form

Lockheed Martin Systems Integration - Owego
Name of facility

Lockheed Martin Corporation
Name of parent company (if any)

1801 Route 17C
Street address

Attn: Maildrop 0574
Street address (continued)

Owego, NY 13827
City/State/Zip code

Give us information about your contact person for the National Environmental Achievement Track Program.

Name Hal Ehrhardt

Title Manager, Safety, Chemical and Environmental Programs

Phone 607 751 2285

Fax 607 751 4730

E-mail hal.ehrhardt@lmco.com

Why do we need this information?

EPA needs background information on your facility to evaluate your application.

What do you need to do?

- Provide background information on your facility.
- Identify your environmental requirements.

1 What do you do or make at your facility?

A premier provider of advanced technology products, services and systems integration solutions for defense, civil and commercial customers worldwide. From subsystems in helicopters and fixed wing aircraft, to automotive and healthcare information technology solutions, our diversified business base includes more than 60 programs.

2 List the Standard Industrial Classification (SIC) code(s) or North American Industrial Classification System (NAICS) codes that you use to classify business at your facility.

SIC
7373 3812 3579

NAICS

3 Does your company meet the Small Business Administration definition of a small business for your sector?

☐ Yes ☒ No

4 How many employees (full-time equivalents) currently work at your facility?

☐ Fewer than 50

☐ 50-99

☐ 100-499

☐ 500-1,000

☒ More than 1,000

5 Does your facility have an EPA ID number(s)? If yes, list in the right-hand column.	☒ Yes ☐ No BRS/RCRIS - NYO000146126 TRIS - 13827BMSYSROUTE PCS - NY0004057
6 Identify the environmental requirements that apply to your facility. Use the Environmental Requirements Checklist, at the back of the instructions, as a reference. List your requirements to the right *or* enclose a completed Checklist with your application.	Completed checklist.
7 Check the appropriate box in the right-hand column.	☐ I've listed the requirements above. ☒ I've enclosed the Checklist with my application.
8 Optional: Is there anything else you would like to tell us about your facility?	See attached Environmental program description.

Why do we need this information?

Facilities must have an operating Environmental Management System (EMS) that meets certain requirements.

What do you need to do?

- Confirm that your EMS meets the Achievement Track requirements.
- Tell us if you have completed a self-assessment or have had a third-party assessment of your EMS.

1 Check *yes* if your EMS meets the requirements for each element below as defined in the instructions.

a. Environmental policy ☒ Yes

b. Planning ☒ Yes

c. Implementation and operation ☒ Yes

d. Checking and corrective action ☒ Yes

e. Management review ☒ Yes

2 Have you completed at least one EMS cycle (plan-do-check-act)? ☒ Yes

3 Did this cycle include both an EMS and a compliance audit? ☒ Yes

4 Have you completed an objective self-assessment or third-party assessment of your EMS? ☒ Yes

If yes, what method of EMS assessment did you use?

☒ Self-assessment

☐ GEMI ☒ Other

☐ CEMP Corporate Procedure Assessment

☒ Third-party assessment

☒ ISO 14001 Certification

☐ Other

Why do we need this information?

Facilities must show that they are committed to improving their environmental performance. This means that you can describe past achievements and will make future commitments.

What do you need to do?

Refer to the Environmental Performance Table in the instructions to answer questions 1 and 2.

1 Describe your past achievements for at least two environmental aspects. If you need more space than is provided, attach copies of this page.

Note to small facilities: If you qualify as a small facility as defined in the instructions, you are required to report past achievement for at least one environmental aspect.

First aspect you've selected

What aspect have you selected?	What was the previous level (2 years ago)?		What is the current level?	
	Quantity	Units	Quantity	Units
Hazardous Material Use - chemical use at wastewater treatment plant	H2SO4 3.8 NaOH 3.9	tons/MG tons/MG	1.7 1.7	tons/MG tons/MG

i. How is the current level an improvement over the previous level?

The current level show significant reduction in chemical use. Chemicals are used in wastewater treatment to remove metals prior to discharge.

ii. How did you achieve this improvement?

The regenerant treatment process was modified to precipitate copper at pH 9 - 9.5, instead of about pH 11.5. The process is more efficient at the lower pH. Less acid is needed to neutalize the lower pH water.

Second aspect you've selected

What aspect have you selected?	What was the previous level (2 years ago)? Quantity	Units	What is the current level? Quantity	Units
Emissions of Ozone Depleting chemicals (potential) - CFCs in environmental test chambers	10700	lbs	460	lbs

i. How is the current level an improvement over the previous level?

Removal of CFCs from equipment reduces the potential that they may be inadvertently emitted.

ii. How did you achieve this improvement?

We have removed the CFC refrigerants from the test chambers and replaced them with refrigerants that are not ozone depleting.

see "Additional Achievements"

2 Select at least four environmental aspects (no more than two from any one category) from the Environmental Performance Table in the instructions and then tell us about your future commitments. If you need more space than is provided, attach copies of this section.

Note to small facilities: If you are a small facility, you are required to make commitments for at least two environmental aspects in two different categories.

First aspect you've selected

a. What is the aspect?

Toxics to Water - copper discharge concentration

b. Is this aspect identified as significant in your EMS?

☒ Yes ☐ No

c. What is the current level? You may choose to state this as an absolute value or in terms of units of production or output.

☒ Option A: Absolute value — 1.2 mg/L average (Quantity/Units)

☐ Option B: In terms of units of production or output — (Quantity/Units)

d. What is the improvement you are committing to over the next three years? You may choose to state this as an absolute value or in terms of units of production or output.

☒ Option A:
Absolute value — 0.3 mg/L decrease (Quantity/Units)

☐ Option B:
In terms of units of production or output — (Quantity/Units)

e. How will you achieve this improvement?

We hope to reduce chelators in the wastewater stream, which will reduce copper levels all through the wastewater treatment plant and enable us to discharge cleaner water.

Second aspect you've selected

a. What is the aspect?

Recycle Material Use - Office products

b. Is this aspect identified as significant in your EMS?

☒ Yes ☐ No

c. What is the current level? You may choose to state this as an absolute value or in terms of units of production or output.

☒ Option A:
Absolute value — paper - 0% recycled content

☐ Option B:
In terms of units of production or output — 134 items with recycled content (Quantity/Units)

(Quantity/Units)

d. What is the improvement you are committing to over the next three years? You may choose to state this as an absolute value or in terms of units of production or output.

☒ Option A:
Absolute value — paper - 40% recycled content average

☐ Option B:
In terms of units of production or output — 45 new items with recycle content (Quantity/Units)

(Quantity/Units)

e. How will you achieve this improvement?

We will work with our office product suppliers to provide office paper with recycled content that works well for our uses, and focus on purchasing more products with recycled material content.

Third aspect you've selected

a. What is the aspect?

Water use - industrial water use (measured as discharge volume from wastewater treatment plant

b. Is this aspect identified as significant in your EMS?

☒ Yes ☐ No

c. What is the current level? You may choose to state this as an absolute value or in terms of units of production or output.

☐ Option A:
Absolute value
(Quantity/Units)

☒ Option B:
In terms of units of production or output
6.2 MG/boardfoot unit*
(Quantity/Units)

d. What is the improvement you are committing to over the next three years? You may choose to state this as an absolute value or in terms of units of production or output.

☐ Option A:
Absolute value
(Quantity/Units)

☒ Option B:
In terms of units of production or output
2.0 MG decrease/boardfoot unit
(Quantity/Units)

e. How will you achieve this improvement?

We will reduce flow rates on process rinses and we will increase efforts to turn rinses off when not needed.

* boardfoot unit is a proprietary number of boardfeet, this unit is consistent with our Hazardous Waste Reduction Plan (HWRP) submittals to NY.

Fourth aspect you've selected

a. What is the aspect?

Hazardous Materials Use - copper lines

b. Is this aspect identified as significant in your EMS?

☒ Yes ☐ No

c. What is the current level? You may choose to state this as an absolute value or in terms of units of production or output.

☐ Option A:
Absolute value
(Quantity/Units)

☒ Option B:
In terms of units of production or output
7400 lbs/boardfoot unit*
(Quantity/Units)

d. What is the improvement you are committing to over the next three years? You may choose to state this as an absolute value or in terms of units of production or output.

☐ Option A:
Absolute value
(Quantity/Units)

☒ Option B:
In terms of units of production or output
1500 lbs decrease/boardfoot unit*
(Quantity/Units)

e. How will you achieve this improvement?

We are currently bringing in a new copper line and expect to reduce materials use by running each type of board on the copper line that is most efficient for the given board's requirements.

* boardfoot unit is a proprietary number of boardfeet, this unit is consistent with our HWRP submittals to NY.

Why do we need this information?

Facilities must demonstrate their commitment to public outreach and performance reporting. You should have appropriate mechanisms in place to identify community concerns, to communicate with the public, and to provide information on your environmental performance.

What do you need to do?

- Describe your approach to public outreach.
- List three references who are familiar with your facility.

1 How do you identify and respond to community concerns?

We have representatives on various community committees; we encourage employees to volunteer in community organizations; and we review local newspapers daily. We have not had any community concerns relative to environmental issues.

2 How do you inform community members of important matters that affect them?

We would inform community leaders via phone call, letter or meeting, depending on the issue. If appropriate, we will issue a press release to local media.

3 How will you make the Achievement Track Annual Performance Report available to the public?

☒ Website www.lmowego.com

☒ Newspaper

☐ Open Houses

☐ Other

We will place an advertisement in the local newspaper announcing the availability of our annual performance report.

4 Are there any ongoing citizen suits against your facility? ☐ Yes ☒ No

If yes, describe briefly in the right-hand column.

5 List references below

	Organization	*Name*	*Phone number*
Representative of a Community/ Citizen Group	Tioga County Coalition for Better Schools	Tom Bailey, Coalition President and Spencer-VanEtten Superintendant of Schools	607 589 7100
State/Local Regulator	Town of Owego Utilities	Michael Trivisonno, Director	607 625 2197
Other community/local reference	Waterman Conservation Education Center	Eileen Shatara, Executive Director	607 625 2221

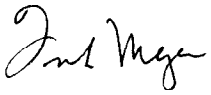
On behalf of Lockheed Martin Systems Integration - Owego
[my facility],

I certify that

- I have read and agree to the terms and conditions, as specified in the *National Environmental Achievement Track Program Description* and in the *Application Instructions*;
- I have personally examined and am familiar with the information contained in this Application (including, if attached, the Environmental Requirements Checklist). The information contained in this Application is, to the best of my knowledge and based on reasonable inquiry, true, accurate, and complete, and I have no reason to believe the facility would not meet all program requirements;
- My facility has an environmental management system (EMS), as defined in the Achievement Track EMS requirements, including systems to maintain compliance with all applicable federal, state, tribal, and local environmental requirements, in place at the facility, and the EMS will be maintained for the duration of the facility's participation in the program;
- My facility has conducted an objective assessment of its compliance with all applicable federal, state, tribal, and local environmental requirements, and the facility has corrected all identified instances of potential or actual noncompliance;
- Based on the foregoing compliance assessment and subsequent corrective actions (if any were necessary), my facility is, to the best of my knowledge and based on reasonable inquiry, currently in compliance with applicable federal, state, tribal, and local environmental requirements.

I agree that EPA's decision whether to accept participants into or remove them from the National Environmental Achievement Track is wholly discretionary, and I waive any right that may exist under any law to challenge EPA's acceptance or removal decision.

I am the senior facility manager and fully authorized to execute this statement on behalf of the corporation or other legal entity whose facility is applying to this program.

Signature/Date  9/19/2000

Printed Name/Title Frank C. Meyer, President

Facility Name Lockheed Martin Systems Integration - Owego

Facility Street Address 1801 Route 17C, Owego, NY 13827

Facility ID Numbers BRS/RCRIS - NYO000146126; TRIS - 13827BMSYSROUTE; PCS - NY0004057

The National Environmental Performance Track is a U.S. Environmental Protection Agency program. Please direct inquiries to 1-888-339-PTRK or e-mail ptrack@indecon.com. Mail completed applications to:

The Performance Track Information Center
c/o Industrial Economics Incorporated
2067 Massachusetts Avenue
Cambridge, MA 02140

National Environmental Achievement Track

Environmental Requirements Checklist

The following Checklist is provided to assist facilities in answering Section A, "Tell us about your facility," Question 6. The Checklist is given to help facilities identify the major federal, state, tribal, and local environmental requirements applicable at their facilities. The Checklist is not intended to be an exhaustive list of all environmental requirements that may be applicable at an individual facility.

If you use this Checklist and choose to submit it with your application, fill in your facility information below and enclose the completed Checklist with your application (see instructions).

Facility Name	Lockheed Martin Systems Integration- Owego
Facility Location:	1801 Route 17C, Owego, NY 13827
Facility ID Number(s):	BRS/RCRIS - NYO000146126, TRIS - 13827BMSYSROUTE,
(attach additional sheets if necessary)	PCS - NY0004057

	Check All That Apply
Air Pollution Regulations	
1. National Emission Standards for Hazardous Air Pollutants (40 CFR 61)	☒
2. Permits and Registration of Air Pollution Sources	☒
3. General Emission Standards, Prohibitions and Restrictions	☒
4. Control of Incinerators	☐
5. Process Industry Emission Standards	☐
6. Control of Fuel Burning Equipment	☒
7. Control of VOCs	☒
8. Sampling, Testing and Reporting	☒
9. Visible Emissions Standards	☒
10. Control of Fugitive Dust	☐
11. Toxic Air Pollutants Control	☒
12. Vehicle Emissions Inspections and Testing	☐
Other Federal, State, Tribal or Local Air Pollution Regulations Not Listed Above (identify)	
13. NY State Laws and Regulations	☒
14.	☐
Hazardous Waste Management Regulations	
1. Identification and Listing of Hazardous Waste (40 CFR 261)	
- Characteristic Waste	☒
- Listed Waste	☒
2. Standards Applicable to Generators of Hazardous Waste (40 CFR 262)	
- Manifesting	☒

- Pre-transport requirements ☒
- Record keeping/reporting ☒

3. Standards Applicable to Transporters of Hazardous Waste (40 CFR 263)
   - Transfer facility requirements ☐
   - Manifest system and record-keeping ☐
   - Hazardous waste discharges ☐
4. Standards for Owners and Operators of TSD Facilities (40 CFR 264)
   - General facility standards ☐
   - Preparedness and prevention ☐
   - Contingency plan and emergency procedures ☐
   - Manifest system, Record keeping and reporting ☐
   - Groundwater protection ☐
   - Financial requirements ☐
   - Use and management of containers ☐
   - Tanks ☐
   - Waste piles ☐
   - Land treatment ☐
   - Incinerators ☐
5. Interim Status Standards for TSD Owners and Operators (40 CFR 265) ☐
6. Interim Standards for Owners and Operators of New Hazardous Waste Land Disposal Facilities (40 CFR 267) ☐
7. Administered Permit Program (Part B) (40 CFR 270) ☐

Other Federal, State, Tribal or Local Hazardous Waste Management Regulations Not Listed Above (identify)

8. NY State Laws and Regulations ☒
9. ☐

Hazardous Materials Management

1. Control of Pollution by Oil and Hazardous Substances (33 CFR 153) ☐
2. Designation of Reportable Quantities and Notification of Hazardous Materials Spill (40 CFR 302) ☒
3. Hazardous Materials Transportation Regulations (49 CFR 172-173) ☒
4. Worker Right-to-Know Regulations (29 CFR 1910.1200) ☒
5. Community Right-to-Know Regulations (40 CFR 350-372) ☒

Other Federal, State, Tribal or Local Hazardous Materials Management Regulations Not Listed Above (identify)

6. NY State Laws and Regulations (e.g., Chemical Bulk Storage) ☒
7. Tioga County Hazardous Material Storage Code ☒

Solid Waste Management

1. Criteria for Classification of Solid Waste Disposal Facilities and Practices (40 CFR 257) ☐
2. Permit Requirements for Solid Waste Disposal Facilities ☐
3. Installation of Systems of Refuse Disposal ☐

4. Solid Waste Storage and Removal Requirements ☐
5. Disposal Requirements for Special Wastes ☐

Other Federal, State, Tribal or Local Solid Waste Management Regulations Not Listed Above (identify)

6. ☐
7. ☐

Water Pollution Control Requirements

1. Oil Spill Prevention Control and Countermeasures (SPCC) (40 CFR 112) ☒
2. Designation of Hazardous Substances (40 CFR 116) ☒
3. Determination of Reportable Quantities for Hazardous Substances (40 CFR 117) ☒
4. NPDES Permit Requirements (40 CFR 122) ☒
5. Toxic Pollutant Effluent Standards (40 CFR 129) ☐
6. General Pretreatment Regulations for Existing and New Sources (40 CFR 403) ☒
7. Organic Chemicals Manufacturing Point Source Effluent Guidelines and Standards (40 CFR 414) ☐
8. Inorganic Chemicals Manufacturing Point Source Effluent Guidelines and Standards (40 CFR 415) ☐
9. Plastics and Synthetics Point Source Effluent Guidelines and Standards (40 CFR 416) ☐
10. Water Quality Standards ☐
11. Effluent Limitations for Direct Dischargers ☒
12. Permit Monitoring/Reporting Requirements ☒
13. Classifications and Certifications of Operators and Superintendents of Industrial Wastewater Plants ☐
14. Collection, Handling, Processing of Sewage Sludge ☐
15. Oil Discharge Containment, Control and Cleanup ☐
16. Standards Applicable to Indirect Discharges (Pretreatment) ☐

Other Federal, State, Tribal or Local Water Pollution Control Regulations Not Listed Above (identify)

17. NY State Laws and Regulations ☒
18. Town of Owego Codes for Discharges to Sanitary Treatment Plants ☒

Drinking Water Regulations

1. Underground Injection and Control Regulations, Crieria and Standards (40 CFR 144, 146) ☐
2. National Primary Drinking Water Standards (40 CFR 141) ☐
3. Community Water Systems, Monitoring and Reporting Requirements (40 CFR 141) ☐
4. Permit Requirements for Appropriation/Use of Water from Surface or Subsurface Sources ☐
5. Underground Injection Control Requirements ☐

6. Monitoring, Reporting and Record keeping Requirements for Community Water Systems ☐

Other Federal, State, Tribal or Local Drinking Water Regulations Not Listed Above(identify)

7. Susquehanna River Basin Commission ☒
8. ☐

Toxic Substances

1. Manufacture and Import of Chemicals, Record keeping and Reporting Requirements (40 CFR 704) ☐
2. Import and Export of Chemicals (40 CFR 707) ☒
3. Chemical Substances Inventory Reporting Requirements (40 CFR 710) ☐
4. Chemical Information Rules (40 CFR 712) ☐
5. Health and Safety Data Reporting (40 CFR 716) ☐
6. Pre-Manufacture Notifications (40 CFR 720) ☐
7. PCB Distribution Use, Storage and Disposal (40 CFR 761) ☐
8. Regulations on Use of Fully Halogenated Chlorofluoroalkanes (40 CFR 762) ☐
9. Storage and Disposal of Waste Material Containing TCDD (40 CFR 775) ☐

Other Federal, State, Tribal or Local Toxic Substances Regulations Not Listed Above (identify)

10. ☐
11. ☐

Pesticide Regulations

1. FIFRA Pesticide Use Classification (40 CFR 162) ☒
2. Procedures for Disposal and Storage of Pesticides and Containers (40 CFR 165) ☐
3. Certification of Pesticide Applications (40 CFR 171) ☒
4. Pesticide Licensing Requirements ☐
5. Labeling of Pesticides ☒
6. Pesticide Sales, Permits, Records, Application and Disposal Requirements ☐
7. Disposal of Pesticide Containers ☐
8. Restricted Use and Prohibited Pesticides ☐

Other Federal, State, Tribal or Local Pesticides Regulations Not Listed Above (identify)

9. NY State Laws and Regulations ☒
10. ☐

Environmental Clean-Up, Restoration, Corrective Action

1. Comprehensive Environmental Response, Compensation and Liability Act (Superfund) (identify) ☐ ☐

2. RCRA Corrective Action (identify)
   This facility is undergoing RCRA corrective action pursuant to New York DEC Permit No. 7-4930-00016/00074-0, EPA ID No. NYD9868974501 under which IBM (former facility owner) retains responsibility. ☒

   ☐

Other Federal, State, Tribal or Local Environmental Clean-Up, Restoration, Corrective Action Regulations Not Listed Above (identify)

3. ☐
4. ☐

Environmental Program Description - Lockheed Martin Systems Integration - Owego

Lockheed Martin Systems Integration - Owego is a diverse dynamic business providing systems integration solutions to a variety of defense, civil and commercial customers. Our business changes as advances in high technology occur and our environmental programs must adapt with these changes. As manufacturing fluctuates, we have sought ways to minimize process chemical waste. As business shifts to more assembly and software operations, environmental programs shift along with them.

Lockheed Martin Systems Integration - Owego's environmental protection programs have been maintained and improved for over 25 years. Environmental concerns are integrated into business processes, and are first considered at the time that we initially consider going after a particular business.

In 1995, the facility received a New York Governor's Pollution Prevention Award. Some of the successes cited on the award application are as follows:

- A new Industrial Wastewater Treatment Plant which reduced sludge 90%, increased the amenability of recycling the sludge for copper, and eliminated the shipment of wastewater for offsite treatment
- Reduction of ozone depleting substances in manufacturing
- Employee participation in the solid waste recycle program and team approaches to solving environmental issues
- Community involvement - sponsoring a 1992 recycle seminar for local organizations, assisting in Tioga County household hazardous waste collection.

In 1997, the facility received a New York Governor's Waste Reduction and Recycling Award for Achievement of Excellence for solid waste programs that achieved a 68 percent recycle rate and a 77 percent reduction in landfilled waste, combining recycling and source reduction. Over a dozen streams of waste materials are recycled.

The site became the first defense contractor plant admitted to OSHA's Voluntary Protection Program (VPP) at the STAR (highest) level in 1994. The STAR status was re-approved after a weeklong OSHA on-site review in 1997.

ISO 14001 registration was received by the facility in July 1997, less than 1 year after standard was issued.

The Lockheed Martin Corporation has been recognized for its leadership role in cooperative environmental programs and for efficiently integrating regulatory objectives with other business goals. The Lockheed Martin Corporate Energy, Environment, Safety and Health function recognized the Owego facility with its ESH Excellence Award, Large Site, in the first full year the facility was part of the corporation. The award recognized the overall integration of environment, safety and health considerations into business decision making, and reductions in the generation of chemical waste by 97 percent and SARA reportable releases by 99 percent, from 1988 to 1996. The Owego

facility has been a contributor to corporate-wide achievements since becoming a part of the corporation.

The effectiveness of our waste and pollution prevention programs often leaves their successes difficult to quantify:

- We strive to eliminate hazardous chemicals before use begins.
- Scrap from inventory age control is near zero (a vendor trying to sell us an inventory control system at first thought they could reduce such scrap, and left wondering how we do it so well).
- We work with vendors to buy only what we need rather than the full lot they want to sell us (purchase 2 gallons of mil-spec paint we need, rather than the 20 gallons "normal lot").
- We have worked with suppliers to reduce their packaging (initiated egg-crating of parts).
- We have reduced product packaging, especially for postal systems equipment, by providing reusable cushioning and padding in the trucks used for transport.

Owego has had an active energy conservation program for more than 20 years. The energy conservation team routinely reviews and audits system and equipment performance and efficiency to identify opportunities for improvement. This effort has driven upgrade programs for major energy consuming systems including Powerhouse Utilities, HVAC and Lighting. Meters have been installed throughout the site and are a valuable tool for optimizing system performance. This has allowed us to reduce powerhouse electrical demand 21 percent over the last seven years. These and other improvements have saved the Owego site over $11 million in the past decade.

Lockheed Martin Systems Integration - Owego is a large industrial facility in a small community. As such, Lockheed Martin employees are an integral part of the community, and there are many informal mechanisms for Lockheed Martin to be made aware of community concerns, challenges and desires. The site has an active community relations program, which includes promoting volunteerism within the community. The site and local schools formed the Tioga County Coalition for Better Schools in 1990. Environmental issues and careers are a part of this program to enhance local education programs with a particular emphasis on math and science. The site participates in the Aurora Project, which is a consortium of local business, government and academic groups working together to improve the local economy in environmentally beneficial ways. Lockheed Martin has acted as a drop off point for the Aurora Project-sponsored community Personal Computer take-back day. Employees volunteer throughout the community for many organizations including the Waterman Conservation Center, volunteer firefighters, ambulance crews and hazardous materials response expertise.

Additional Achievements - Lockheed Martin Systems Integration - Owego

These are additional achievements:

Aspect - Hazardous Waste Generation - Water soluble flux

- What was the previous level (2 years ago)? - 2 drums/qtr
- What is the current level? - 5-10 gal/qtr
- How is the current level an improvement over the previous level? How did you achieve this improvement? - We replaced a solder dip machine with a solder coater machine. Previously waste was produced on a weekly basis; waste is now produced based on throughput on the machine. This also reduced the use of solder.

Aspect - Energy Use

- What was the previous level (2 years ago)? - Not applicable
- What is the current level? - Not applicable
- How is the current level an improvement? - Total energy use numbers do not provide appropriate basis for comparison for the following reasons: temperatures and other weather factors have a significant impact on energy; site population has increased; many operations have changed in the past couple years.
- How did you achieve this improvement? - 21 documented projects in 1999 and 14 documented projects in 1998 were devoted to energy management.
- 2 projects of note - A program to reduce the use of chemical process exhausts when not needed has saved an estimated 4950 MMBTU in '98 and '99. The installation of improved controls and variable speed drives to our Building 002 utility service resulted in 1998 and '99 estimated savings of 22000 MMBTU.